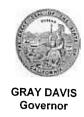


State of California—Health and Human Services Agency Department of Health Services



August 15, 2002

VENDOR INFORMATION
CALIFORNIA ELAP PERFORMANCE EVALUATION STUDY PROGRAM
WATER SUPPLY (WS) AND WATER POLLUTION (WP) STUDY SERIES
MICROBIOLOGY

California State Environmental Laboratory Accreditation Program (ELAP) had directed its laboratories to participate in microbiology studies provided by several vendors. Detailed information is provided to each vendor in this communication. Please, review the following details and if you have questions, please contact Fred Choske:

- 1 The vendor must be in compliance with NIST handbook 150, NIST handbook 150-19, and USEPA Criteria Document (December 1998). This is inclusive of the manufacture/preparation of the PE study samples as well as other functions expected of the vendor for such studies.
- 2. Laboratories are permitted to report multiple analyte (E.Coli, Fecal) results from the same wastewater enumeration sample. For this reason laboratories have been instructed to make copies of the blank report forms to facilitate such reporting to the vendor of choice.
- 3. If a laboratory wishes to participate in a study for quality control purposes only and requests that ELAP not receive a copy of the report, such a request must be made prior to participation in the study. To avoid confusion, such laboratories have been recommended to order blind quality control samples, which are not part of on-going performance evaluation studies.



Do your part to help California save energy. To learn more about saving energy, visit the following web site: www.consumerenergycenter.org/flex/index.html

- 4. The method description for each laboratory's reported result is necessary for ELAP review. In order to make uniform the method descriptions and to allow differentiation between methods employed by laboratories for routine sample analyses, a set of short-handed descriptions have been established for use, as depicted in the enclosed tables. From August 2002, laboratories will be using these short-handed descriptions in reporting their results to the vendors. Vendors are encouraged to use the short-handed descriptions as provided, so ELAP can use the descriptions for assessment of the laboratories. Your cooperation is greatly appreciated.
- 5. If a laboratory certified by the State of California cannot remember its EPA ID number or has questions about the ID number, please have the laboratory contact Fred Choske at (510) 540-2800.
- 6. If a laboratory did not report results for all 10 samples, notation of "not reported" should appear in the evaluation for the analyte. If an analyte or sample is invalidated for any reason, the evaluation report should contain the laboratory-reported results and the evaluation of " not evaluated" for the analyte(s) affected, so that the reader of the report would know that the laboratory did analyze the sample.
- Find the Services of the Study completion date. Copies of these reports are expected to be sent to ELAP to the attention of Fred Choske (at the California State Department of Health Services, Environmental Laboratory Accreditation Program, 1625 Shattuck Avenue, Room 101, Berkeley, CA 94709-1611) within the similar time frame. Faxed copies and E-mailed copies of the evaluation reports are not accepted.
- 8 The evaluation report for the drinking water microbiology studies (presence/absence), provided to the laboratory must have the following minimum information

study type and date (date of study evaluation)
study date (commencement and conclusion) study number
vendor's name, NIST accreditation number, location, telephone, fax
laboratory's (participant) complete name and address
if mobile, license number, vehicle identification number
EPA laboratory ID number
name and title of laboratory official who approved the data on the report
series identifier for each analyte
analyte name, analyte code
sample number
method of analyses, method code
reported value
assigned value
evaluation of the sample

Please note, ELAP prefers to evaluate its own laboratories. Please do not supply the "evaluation for the analyte (based on evaluation of 10 samples)" on the individual laboratory report.

 The evaluation report to the laboratory for HPC, drinking water source or wastewater microbiology methods (which involve enumeration), should be similar to the WPCHEM reports described in the USEPA Criteria Document (Dec. 1998), and must have the following minimum information

> study type and date (date of study evaluation) study date (commencement and conclusion) study number vendor's name, NIST accreditation number, location, telephone, fax laboratory's (participant) complete name and address if mobile, license number, vehicle identification number EPA laboratory ID number name and title of laboratory official who approved the data on the report analyte name, analyte code lot number method of analyses, method code </> field reported value assigned value acceptance limits evaluation

<u>Please note, warning limits are not used in microbiology performance evaluation stugi@IL</u> Please omit them.

10 <u>Electronically Transmitted Evaluation Reports:</u>

At the completion of a study, electronically transmitted evaluation report(s) in ASCII, a) comma delimited format as described in the U.S. Environmental Protection Agency Criteria Document of December 1998, on 3.5-inch diskettes must be mailed to Fred Choske with the hard copies of the evaluation reports, at the California State Department of Health Services, Environmental Laboratory Accreditation Program, 1625 Shattuck Avenue, Room 101, Berkeley, CA 94709-1611. (The fields for the electronic form of the evaluation report(s) must meet the requirements described in the U.S. Environmental Protection Agency Criteria Document of December 1998. The only identification of the participant laboratory in the electronic form of the evaluation report must be the EPA laboratory code which is the If participant identifier" in the U.S. Environmental Protection Agency Criteria Document of December 1998.) In addition to the fields described in the U.S. Environmental Protection Agency Criteria Document of December 1998, fields designating the commencement and conclusion of the study are required: study commencement date field identifier "date1" with MM/DD/YYYY entry format; study conclusion date field identifier "date2" with MM/DD/YYYY entry format. (The study commencement would be the date the first shipment of study samples is mailed out to the laboratories. The study conclusion would be the date of study closure.)

- b) Vendors providing samples for enumeration (for example HPC) should use the reporting format for WPCHEM as described in the USEPA Criteria Document (Dec 1998) for electronically transmitted performance evaluation study reports. "WPMICRO" should be used as the study type for samples that are being reported for wastewater enumeration.
- c) If a "greater than" or "less than" symbol (</>) is reported, it should be reported in the field" as described in the USEPA Criteria Document (Dec. 1998). The "reported value field" is a numeric field and should not contain non-numeric characters.
- d) The following four files are to be included in the electronic transmitted reports:
 - Initial Assigned Values File
 - Final Assigned Values File
 - Study Data File
 - Study Summary Results File.
- e) The electronic information sent to California ELAP must include the USEPA laboratory ID number for each participating laboratory.
- f) Until the NELAC PT committee's analyte codes are accepted, the analyte codes that appear in the USEPA Criteria Document (Dec. 1998) shall be used.

The information contained in this letter and enclosures from California ELAP is for the vendor only and not to be shared with others.

Please contact Fred Choske at (510) 540-. if you have any questions Your cooperation is greatly appreciated.

Sincerely,

George Kulasingam, Ph.D. Program Chief

[Signed by FC]

Fred Choske Environmental Laboratory Accreditation Program

Enclosure

Method Description Tables

MICROBIOLOGY PT STUDIES METHOD DESCRIPTIONS & ANALYTE CODES

(August 2002)

In order to make uniform the method descriptions and to allow differentiation between methods employed by laboratories for routine sample analyses, a set of short-handed descriptions have been established for use, as depicted in the tables below. Soon, laboratories will be using these short-handed descriptions in reporting their results to the vendors. Vendors are encouraged to use the short-handed descriptions as provided by the laboratories, so that the California State Environmental Laboratory Accreditation Program (ELAP) can use the descriptions for assessment of the laboratories. Your cooperation is greatly appreciated. In addition to the method descriptions are analyte codes (which are expected to be used in providing electronic data via diskettes to ELAP), and reference methods (which are those that appear in Federal regulations and are provided here for information purposes only).

METHOD DESCRIPTIONS & ANALYTE CODES MICROBIOLOGY

(Table 1)

Group of Analytes	ELAP/EPA Analyte Codes	NELAP Analyte <u>Codes</u>	Method Description*	Reference <u>Method</u>	
DRINKING WATER	MATRIX				
Multiple Tube Ferme	entation (or "F	ermentatio	on") Methods:		
Total Coliform Fecal Coliform <i>E.coli</i>	0252 0253 0253	same same same	MTFLTB MTFEC MTFECMUG	SM9221A,B SM9221E CFR 141.21(f)(6)(i)	
Clarks (or "P-A") Methods:					
Total Coliform Fecal Coliform Fecal Coliform	0254 0255 0255	same same same	Clarks ClarksEC ClarksECMUG	SM9221D SM9221E CFR 141.21(f)(6)(i)	
Membrane Filtration (or "Filtration") Methods:					
Total Coliform Fecal Coliform E.coli E.coli	0250 0251 0251 0251	same same same same	MFmENDO MFEC MFECMUG MFNAMUG	SM9222A,B,C SM9221E CFR 141.21(f)(6)(i) CFR 141.21(f)(6)(ii)	

	ELAP/EPA	NELAP		
Group of Analytes	Analyte	Analyte	Method	Reference
	<u>Codes</u>	Codes	<u>Description*</u>	<u>Method</u>

DRINKING WATER MATRIX (continued)

"Chromogenic-Fluorogenic" Methods Involving Membrane Filtration:

Total Coliform <i>E.coli</i>	0250	same	MI	EPA/600/J-99/225
	0251	same	MI	EPA/600/J-99/225
Total Coliform <i>E.coli</i>	0250	same	mColiBlue24	Hach ¹
	0251	same	mColiBlue24	Hach ¹

[&]quot;Chromogenic-Fluorogenic" Methods Involving Single or Multiple Tube Processes:

Notations:				
Total Coliform E.coli	0256	same	EColite	Charm ³
	0257	same	EColite	Charm ³
Total Coliform E.coli	0256	same	Colisure	ldexx ²
	0257	same	Colisure	Idexx ²
Total Coliform E.coli Total Coliform E.coli	0256	same	Colilert	SM9223
	0257	same	Colilert	SM9223
	0256	same	Colilert18	SM9223
	0257	same	Colilert18	SM9223

Notations:

The method descriptions must <u>not</u> contain spaces, hyphens, slashes, or commas.

- 1. Appears in the Code of Federal Regulations, volume 40, part 141.21(f)(6)(vii). Method is available from the Hach Company, 100 Dayton Avenue, Ames, IA 50010.
- 2. Appears in the Code of Federal Regulations, volume 40, parts 141.21(f)(3) and 141.21(f)(6)(iv). Method is available from IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, Main 04092.
- 3. Appears in the Code of Federal Regulations, volume 40, part 141.21(f)(6)(vi). Method is available from Charm Sciences, Inc., 36 Franklin Street, Malden, MA 02148-4120.

METHOD DESCRIPTIONS & ANALYTE CODES MICROBIOLOGY

(Table 2)

	Analyte		Method	Reference
Group of Analytes		•	Description*	<u>Method</u>

HPC

Heterotrophic Plate Count

- * The method descriptions must <u>not</u> contain spaces, hyphens, slashes, or commas.
- 4. Method is the same for either drinking water or wastewater matrix.

METHOD DESCRIPTIONS & ANALYTE CODES MICROBIOLOGY

(Table 3)

Group of Analytes	ELAP/EPA Analyte Codes	NELAP Analyte Codes	Method Description*	Reference <u>Method</u>		
DRINKING WATER	SOURCE ("S	SOURCE V	VATER")⁵			
Multiple Tube Ferme	entation (or "F	- ermentatio	on") Methods:			
Total Coliform Fecal Coliform Fecal Coliform	0252 0253 0253		MTFLTB MTFEC MTFA1	SM9221B SM9221C,E SM9221E		
Membrane Filtration (or "Filtration") Methods:						
Total Coliform Fecal Coliform	0250 0251		MFmENDO MFMFC	SM9222B SM9222D		
Chromogenic-Fluorogenic Methods Involving Membrane Filtration:						
Total Coliform	0250,		MI	EPA/600/J-99/225		
Chromogenic-Fluorogenic Methods Involving Single or Multiple Tube Processes:						
Total Coliform Total Coliform Total Coliform Total Coliform ====================================	0256 0256 0256 0256 =========	=======	ColilertMTF ColilertQT Colilert18MTF Colilert18QT	SM9223		
Notations:						

The method descriptions must <u>not</u> contain spaces, hyphens, slashes, or commas.

5. Laboratories may analyze wastewater PT study samples with the methods indicated for this category of testing.

METHOD DESCRIPTIONS & ANALYTE CODES MICROBIOLOGY

(Table 4)

Group of Analytes	ELAP/EPA Analyte Codes	NELAP Analyte Codes	Method <u>Description*</u>	Reference <u>Method</u>			
WASTEWATER MATRIX							
Multiple Tube Fermentation (or "Fermentation") Methods:							
Total Coliform Fecal Coliform Fecal Coliform	0252 0253 0253	0234 0236 0236	MTFLTB MTFEC MTFA1	SM9221B SM9221C,E SM9221E			
Membrane Filtration (or "Filtration") Methods:							
Total Coliform Fecal Coliform ====================================	0250 0251	0233 0235 =======	MFmENDO MFMFC ==========	SM9222B SM9222D ==========			
NOTATION:							

The method descriptions must <u>not</u> contain spaces, hyphens, slashes, or commas.